

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2005/000247

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7): A61K 38/08, A61K 38/06, A61K 38/07, A61K 47/42, A61K 51/08, A61K 35/12, C12Q 1/02, A61P 25/28, A61P 3/10

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(7): A61K 38/08, A61K 38/06, A61K 38/07, A61K 47/42, A61K 51/08, A61K 35/12, C12Q 1/02, A61P 25/28, A61P 3/10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Canadian Patent Database, USPTO, Delphion, PUBMED, NCBI

key words: antifibrillrogenic, islet amyloid polypeptide, peptidomimetic, Alzheimer's disease, small peptide bioavailability,

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/24727 A2 (FRASER, A.) March 28, 2002. see whole document	1 - 7, 32 - 45, 47 - 56
Y		1 - 61
Y	US 6359112 B2 (KAPURNIOTU, A. et al.) March 19, 2002. see whole document	1 - 56
Y	SIGURDSSON, E. M. et al. In Vivo Reversal of Amyloid- $\beta$ Lesions in Rat Brain. J. Neuropath. Exp. Neurology. January, 2000, Vol. 59, No. 1, pages 11 - 17. see whole document	57 - 61
A	EP 0289287 B1 (COOPER, G. J. S. et al.) January 28, 1998.	1 - 61
A	US 6562836 B1 (SZAREK, W. A. et al.) May 13, 2003.	1 - 61
A	KELLY, J. W. The Environmental Dependency of Protein Folding Best Explains Prion and Amyloid Diseases. Proc Natl. Acad. Sci. USA. February, 1998, Vol. 95, pages 930 - 932.	1 - 61
A	US 6610824 B2 (GAETA, L. et al.) August 26, 2003.	1 - 61
A	US 5686411 (GAETA, L. et al.) November 11, 1997.	1 - 61

Further documents are listed in the continuation of Box C.

See patent family annex.

• Special categories of cited documents :	
“A” document defining the general state of the art which is not considered to be of particular relevance	“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
“E” earlier application or patent but published on or after the international filing date	“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
“L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
“O” document referring to an oral disclosure, use, exhibition or other means	“&” document member of the same patent family
“P” document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

21 June 2005 (21-06-2005)

Date of mailing of the international search report

22 June 2005 (22-06-2005)

Name and mailing address of the ISA/CA  
Canadian Intellectual Property Office  
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Gatineau, Quebec K1A 0C9  
Facsimile No.: 001(819)953-2476

Authorized officer  
Steven Kolodziejczyk (819) 997-3239

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2005/000247

### Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of the first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1.  Claim Nos. : 32 - 39 and 47 - 56

because they relate to subject matter not required to be searched by this Authority, namely :

The aforementioned claims are considered to be directed to methods of medical treatment, which the International Search Authority is not required to search under PCT Article 17(2)(a)(I) and PCT Rule 39.1(iv).

2.  Claim Nos. :

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :

3.  Claim Nos. :

because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2.  As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.

3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claim Nos. :

4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claim Nos. :

**Remark on Protest**  The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**International application No.  
PCT/CA2005/000247**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GHANTA, J. et al. A Strategy for Designing Inhibitors of $\beta$ -Amyloid Toxicity. J. Biol. Chem. November 22, 1996, Vol. 271, No. 47, pages 29525 - 29528.	1 - 61
A	AITKEN, J. et al. Suppression by Polycyclic Compounds of the Conversion of Human Amylin into Insoluble Amyloid. Biochem. J. June 18, 2003, Vol. 374, pages 779 - 784.	1 - 61

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No. PCT/CA2005/000247	
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Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
WO0224727 A2	28-03-2002	AU9355701 A CA2422911 A1 EP1325028 A2 JP2004517050 T T US2002119926 A1	02-04-2002 28-03-2002 09-07-2003 10-06-2004 29-08-2002
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International application No.  
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search	Date of mailing of the international search report
21 June 2005 (21-06-2005)	22 June 2005 (22-06-2005)
Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 001(819)953-2476	Authorized officer  Steven Kolodziejczyk (819) 997-3239

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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2005/000247

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GHANTA, J. et al. A Strategy for Designing Inhibitors of $\beta$ -Amyloid Toxicity. <i>J. Biol. Chem.</i> November 22, 1996, Vol. 271, No. 47, pages 29525 - 29528.	1 - 61
A	AITKEN, J. et al. Suppression by Polycyclic Compounds of the Conversion of Human Amylin into Insoluble Amyloid. <i>Biochem. J.</i> June 18, 2003, Vol. 374, pages 779 - 784.	1 - 61

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.  
PCT/CA2005/000247

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
WO0224727 A2	28-03-2002	AU9355701 A CA2422911 A1 EP1325028 A2 JP2004517050 T US2002119926 A1	02-04-2002 28-03-2002 09-07-2003 10-06-2004 29-08-2002
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EP0289287 B1	02-11-1988	AT155688 T AT162802 T AU634954 B2 AU2157588 A CA1341060 C CA1341333 C DE3855970 D DE3855970 T DE3856121 D DE3856121 T DK473888 A EP0309100 A2 EP0787741 A1 ES2106721 T ES2114522 T FI883936 A GB8709871 D GB8720115 D GR3024705 T GR3026640 T HK1000984 A1 HK1003033 A1 JP1063594 A JP1096137 A JP9133679 A JP10168099 A NO883828 A SG93776 A1 US5124314 A US5175145 A US5367052 A US5641744 A	15-08-1997 15-02-1998 11-03-1993 20-07-1989 25-07-2000 22-01-2002 04-09-1997 29-01-1998 05-03-1998 23-07-1998 05-04-1989 29-03-1989 06-08-1997 16-11-1997 01-06-1998 27-02-1989 03-06-1987 30-09-1987 31-12-1997 31-07-1998 08-05-1998 30-09-1998 09-03-1989 14-04-1989 20-05-1997 23-06-1998 27-02-1989 21-01-2003 23-06-1992 29-12-1992 22-11-1994 24-06-1997
US6562836 B1	13-05-2003	AU4282400 A AU4905000 A BR0010099 A CA2369997 A1 CA2373093 A1 CN1377260 A CN1523992 A EP1227803 A2 EP1276483 A2 IL146143 D IL146681 D	10-11-2000 12-12-2000 04-06-2002 02-11-2000 30-11-2000 30-10-2002 25-08-2004 07-08-2002 22-01-2003 25-07-2002 25-07-2002

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MXPA01010835 A	14-07-2003
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WO0064420 A2	02-11-2000
WO0071101 A2	30-11-2000

US6610824 B2	26-08-2003	AT205854T T	15-10-2001
		AU673147 B2	31-10-1996
		AU714439 B2	06-01-2000
		AU1245697 A	27-03-1997
		AU3075392 A	15-06-1993
		CA2100745 A1	20-05-1993
		CZ9301689 A3	13-04-1994
		DE69232064D D1	25-10-2001
		DE69232064T T2	28-03-2002
		DK567626T T3	17-12-2001
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		EP1162207 A1	12-12-2001
		ES2161697T T3	16-12-2001
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		HU64975 A2	28-03-1994
		JP2902115B2 B2	07-06-1999
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		JP11152299 A	08-06-1999
		JP2003238594 A	27-08-2003
US5686411 A	11-11-1997	AT205854T T	15-10-2001
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		CA2100745 A1	20-05-1993
		CZ9301689 A3	13-04-1994
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		HU64975 A2	28-03-1994
		JP2902115B2 B2	07-06-1999
		JP6504794T T	02-06-1994
		JP11152299 A	08-06-1999
		JP2003238594 A	27-08-2003

PCT

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Date of mailing (day/month/year)  
 01 September 2005 (01.09.2005)

Applicant's or agent's file reference  
 090931358988

## IMPORTANT NOTICE

International application No.  
 PCT/CA2005/000247

International filing date (day/month/year)  
 22 February 2005 (22.02.2005)

Priority date (day/month/year)  
 23 February 2004 (23.02.2004)

Applicant

FRASER, Paul

The International Bureau transmits herewith the following documents:

copy of the international application as published by the International Bureau on 01 September 2005 (01.09.2005) under No. WO 2005/079830

copy of international application as republished by the International Bureau on under No. WO

For an explanation as to the reason for this republication of the international application, reference is made to INID codes (15), (48) or (88) (as the case may be) on the front page of the attached document.